II nd and Final Bill

AEE/SWD/Yzone/SBR10/13-16
30-09-15

M.A.R. 57 (Rule 116)

Measurement Book

No. C/09

Serial No..... 75875

Name of work.....From.....To.....

Name of Contractor of nature of Agency..... Sri G.L.yadugiri .....

Date of commencement of work..... 25/3/2015 .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of work: Remodeling of SWD BP026 (Ly02) from BB Nagara, Kodigehalli to H-200 primary drain near Nagashetti halli main road in ward No-08 in Yelahanka Zone Estimated Cost = 160.00 Lakhs Commissioner approval NO: para 14, Dated: 10/10/2014 Administrative Sanction No. CE/SWD/Admn/78/2014-15, Dated: 21/10/2014 Technical Sanction NO: CE/SWD/TS/62/2014-15, Dated: 21/10/2014 Work order NO. & Date: BBMP/EE/SWD/YZ/WO/06/14-15, Dated: 25/3/2015 Cost of Accepted tender: Rs. 1,60,25,984-70						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
I.No. (1)	Diversion of water course by providing coffer dams or bunds or islands as may be necessary for piers and abutment foundations, bailing out or pumping water during excavation and until completion etc. Complete 1.75 metre depth below L.W.L. Qty. as per pre-measurement recorded in the MS Excel spread sheet vide page no. 01 of 19 (previous measurement) - present measurement.					466.87 Cum - NIL Total upto date Qty. 466.87 Cum Deduct vide page No. 85569/2 of MB No. 856/13-14 462.44 Cum Balance Qty. 4.43 Cum @ Rs. 340.00/Cum = Rs. 1506-00	
I.No. (2)	Earthwork excavation for foundation for foundation of structure as per drawing and technical specifications including getting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved materials complete as per specifications "V" Marshy soil (- A) Manual means upto 3m depth						

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Measurement Book No. C/09

Serial No..... 75876

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	previous measurements Qty. as per premeasurements recorded in the MS Excel spreadsheet vide page no. 04 of 19	- -	- -	- -	- -	355.49 Cum	
	present measurements	- -	- -	- -	- -	NIL	
				Total upto date Qty.		355.49 Cum	
	DPR vide page NO. 855 to 0 of MB NO. 856/13-14					353.34 Cum	
				Balance Qty.		2.15 Cum	
				@ Rs. 120.00/Cum		= Rs.	258-0
I.NO (3)	Dismantling of existing structures like culverts, Bridges, Retaining walls and other structures comprising of masonary, cement concrete wood work, steel work, including T&P and scaffolding where ever neccessary, sorting the dismantled material, disposal of unserviceable						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	material and stacking the serviceable material with all lifts Complete as per specifications						
	previous measurements - Qty. as per premeasurements recorded in the MS Excel spread sheet vide page NO. 02 of 19	-	-	-	-	31.92 Cum	
	present measurements	-	-	-	-	NIL	
				Total Qty.		31.92 Cum	
	DPR vide page NO. 855 to 2 of	MB NO.		856/13-14		31.92 Cum	
				Balance Qty.		-NIL-	
J. NO. 4	Dismantling of existing structures like Culverts, bridges retaining walls and other structure comprising of masonary, Cement Concrete, Wood work, Steel work including T&P and staffolding wherever necessary sorting the dismantled material disposal of unserviceable material with all lifts and lead of 100 meters complete as per specifications. iii) Dismantling of Rubble stone masonary in cement mortar.						
	Qty. as per premeasurements recorded in the MS Excel spreadsheet vide page NO. 03 of 19 (premeasurements) --					164.85 Cum	

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Measurement Book No. C/09

Serial No.....

75877

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					B/F.	164.85 Cum	
	present measurements					-NIL-	
			Total Qty.			164.85 Cum	
	DPR vide page NO. 855 70/2 of MB NO. 856/13-14					164.85 Cum	
			Balance Qty.			-NIL-	
I. NO (5)	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonary cement concrete, wood work, steel work including T&P and scaffolding wherever neccessary sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 meters complete as per specification.						
	premeasurements						
	Qty. as per premeasurements recorded in the MS Excel						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Spreadsheet side page no. 05 of 19 present measurements			- -	- - -	135.03 Cum	
				- -	- -	NIL	
				Total	Qty.	135.03 Cum	
	DPR side page no. 855/1 of MB no. 856/13-14					120.80 Cum	
				Balance	Qty.	14.23 Cum	
					@ Rs. 350.00/Cum = Rs.	4980-00	
I. No. (6)	Earthwork in excavation for foundations of structures as per drawing and technical specifications including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottoms and backfilling with approved material complete as per specifications. B. mechanical means i) Depth upto 3m in ordinary soil.						
	previous measurements - Qty. as per premeasurements recorded in the MS Excel spread sheet side page no. 06 of 19 --					1667.59 Cum	
	present measurements. Qty as per premeasurements recorded in the MS Excel spread sheet side page no. 01 of 15			- -		127.49 Cum	
				Total	Qty.	1795.08 Cum	

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Serial No..... 75873

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					BF	1795.080 Cum	
	DPQ side page No. 855/1/2 of MB No. 856/13-14					1667.59 Cum	
					Total Qty.	127.49 Cum	
	@ Rs. 44.00/Cum = Rs. 5609-00						
I. No. (7)	providing and filling in foundations with granite/stap broken metal 100mm and down size with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead upto 30m and lift of 1.5m Complete as per specification.						
	previous measurements Qty. as per premeasurements recorded in the MS Excel spread sheet side Page No. 07 of 17					235.39 Cum	
	present measurements						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty. as per premeasurements recorded in the MS Excel spreadsheet vide page no. 02 of 15	–	–	–	–	B/F 235.39 Cum 4.15 Cum	
				Total Qty.		239.54 Cum	
	DPR vide page no. 85572/2 of MB 858/13-14					226.50 Cum	
				Balance Qty.		13.04 Cum	
	@ Rs. 2000/cum = Rs.						26,080-00
I.NO. (8)	plain Cement Concrete M10 with OPC Cement @ 220 kgs with Crushed 40 mm and down size graded granite metal coarse aggregates @ 0.84 Cum and fine aggregates @ 0.56 Cum/m³ foundation mechanically mixed, placed in foundation and Compacted by vibrating including curing for 14 days Complete as per specifications.						
	previous measurements – Qty. as per premeasurements recorded in the MS Excel spreadsheet vide page no. 08 of 19 –					117.68 Cum	
	present measurements – in the MS Excel spreadsheet Qty. as per premeasurements recorded vide page no. 03 of 15 –					2.86 Cum	
				Total Qty.		120.54 Cum	

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Measurement Book No. C/09

Serial No.....

Name of work.....From.....To..... 75879

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					BF	120.54 Cum	
	DPR vide page NO. 85572 of MB NO. 856/13-14				—	113.25 Cum	
					Total Qty.	7.29 Cum	
				@	Rs. 5300/Cum	= Rs.	38,637-00
I. NO. (9)	PCC M15 grade levelling coarse below approach slab Complete as per drawings and technical specifications Complete						
	Previous measurements — — —				—	NIL	
	present measurements Qty. as per premeasurements recorded in the MS Excel spreadsheet vide page NO. 04 of 15 —					33.85 Cum	
					Total Qty.	33.85 Cum	
				@	Rs. 5500/Cum	= Rs.	1,86,175-00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
I.NO. (10)	Plain/Reinforced Cement Concrete in open foundation with OPC Cement design mix M35 @ 390 kg with 20mm and down size graded granite metal coarse aggregates @ 0.68 Cum and fine aggregates @ 0.45 cum with superplasticizers @ 3 Lts confirming to IS: 9103-99 Reaffirmed - 2010 Complete as per specifications.						
	previous measurements - Qty. as per premeasurements recorded in the MS Excel sheet vide page no. 11 of 19					- 391.08 Cum	
	present measurements - Qty. as per premeasurements recorded in the MS Excel sheet vide page no. 06 of 15					- 8.75 Cum	
					Total Qty.	399.83 Cum	
	DPR vide page no. 85572/2 of MB 856/13-14					- 376.75 Cum	
					Balance Qty	23.08 Cum	
					@ Rs. 6150/Cum	= Rs.	1,41,942-00
I.NO. (11)	Design mix M35 with OPC cement @ 390 kg with 20mm and down size graded granite metal coarse aggregates @ 0.68 cum and fine aggregates @ 0.45 cum with						

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Measurement Book No. C/09 75880

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Superplasticiser @ 3 ltrs conforming to IS 9103-99 Reaffirmed 2008 previous measurements - Qty. as per premeasurement recorded in the MS Excel sheet vide page no. 12 of 19 - 185.57 Cum present measurements - Qty. as per premeasurement recorded in the MS Excel sheet vide page no. 07 of 15 - 9.98 Cum Total Qty. 195.55 Cum DPR vide page No. 85573 of MB 856/13-14 - 185.57 Cum Balance Qty. 9.98 Cum @ Rs. 6900/- Cum = Rs. 68,862-00						
I.NO. (12)	Furnishing and placing Reinforced/prestressed Cement Concrete in superstructure as per drawing and technical specification D.RCC/RSC with OPC cement design mix M35 @ 390 kg with 20 mm and down size graded granite metal coarse aggregate @ 0.68 cum						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	and fine aggregates @ 0.45 Cum with super plasticiser @ 3 kg to IS: 9103-1999 Reaffirmed-2008.						
	previous measurements Qty. as per premeasurements recorded in the MS Excel spreadsheet vide page No. 17 of 19 - - - - - -					317.73 Cum	
	present measurements - Qty. as per premeasurements in the MS Excel spread sheet vide page No. 09 of 15 -					4.37 Cum	
					Total Qty.	322.10 Cum	
	DPR vide page No. 855 73/2 of MB 856/13-14 .					306.93 Cum	
					Balance Qty.	15.17 Cum	
	limited to 15.15 Cum @ Rs. 7000/ Cum = Rs.					LMT 15.15	1,06,050-00
I.NO. (13)	Supplying, fitting and placing TMT bar reinforcement in Sub-structure as per drawing and technical specifications complete as per specification.						
	previous measurements - Qty. as per premeasurements recorded in the MS Excel sheet page No. 10 of 19 - - - -					62.55 MT	
	present measurements - Qty. as per premeasurements recorded in the MS Excel sheet page No.					1.48 MT	
					Total Qty.	64.03 MT	

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Measurement Book No. C/09

Serial No.....

Name of work.....From.....To.....75881.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					BF	64.03 MT	
	DPA vide page No. 855 73/2 of MB No. 856/13-14					62.55 MT	
					Balance Qty	1.48 MT	
					@ Rs. 72,000/- per MT = Rs.	1,06,560-00	
I. NO. (14)	Supplying, fitting and placing Tor bar reinforcement in super — structure complete as per drawing and technical specification complete as per specification.						
	previous measurements - Qty. as per pre measurements recorded in the MS Excel spreadsheet vide page no. 16 of 19 ---					33.80 MT	
	present measurements - Qty. as per pre measurements recorded in the MS Excel spreadsheet vide page no. ---					0.47 MT	
					Total Qty.	34.27 MT	
	DPA vide Page No. 855 74 of MB No. 856/13-14					33.76 MT	
					Balance Qty.	0.51 MT	33840
	LOM. 047 @ Rs. 72,000/ MT					Rs. 36,720-00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
I.NO (15)	providing 90 mm dia PVC pipes 10 KSC complete as per specification. for weep holes						
	previous measurements – Qty. vide page NO. 18 of 19 of premeasurements recorded in the MS Excel sheet –					129.20 Rmts	
	present measurements –					– NIL	
					Total Qty.	129.20 Rmts	
	DPQ vide page 85574 of MB 856/13-14					120.80 Rmt	
					Balance Qty.	8.40 Rmts	
					@ Rs. 340/Rmt = Rs.	2856-00	
I.NO. (16)	Reinforced Cement Concrete M30 approach slab including reinforcement and form work complete as per drawings and Technical specifications.						
	previous measurements – – – – –					– NIL –	
	present measurements – Qty vide page NO. recorded in the MS Excel spreadsheet			14 of 15 of premeasurements	73.35 Cum @ Rs.	10,500/cum = Rs.	7,70,175-00
I.NO. (17)	providing and fixing in position 20 mm thick premoulded joint filler Not operated						

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Measurement Book

No. C/09 75382

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
I. NO. (18)	Scarifying bituminous course 50 mm to 75 mm thick along with premix carpet/surface dressing by manual means without disturbing the base and stacking of the debris materials within a lead of 100 mtrs Complete as per specifications.						
	previous measurements - - - -					NIL	
	present measurements - Qty. as per premeasurements recorded in the MS Excel spread sheet vide page no. 10 of 15 - -						
						169.00 Sqm @ Rs. 60/- per Sqm = Rs.	10,140/-
I. NO. (19)	Scarifying Stone metal Crust 50 mm to 100 mm thick with pick axes along with premix Carpet/surface dressing and stacking of old serviceable materials within a lead of 100 meters by manual means complete as per specifications.						
	previous measurements - - -			NIL			

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	present measurements – Qty. as per premeasurements recorded in the MS Excel spread sheet vide page No. 11 of 15						
		169.00	Sqm	@	Rs. 50/Cum = Rs.		8450-00
I.NO. (20)	providing, laying, spreading and compacting stone aggregate Uniform water bound macadam specification of uniform thickness, hand packing, rolling with 3 wheeled steel vibratory roller 8-10 tonnes in stages to proper grade and camber complete as per specifications. Type A 13.2mm for grade II.						
	previous measurements – NIL						
	present measurements – Qty. as per premeasurements recorded in the MS Excel spread sheet vide page No 12 of 15						
		32.69	Cum	@	Rs. 1500/Cum = Rs.		48,945-00
I.NO. (21)	providing, laying, spreading and compacting stone aggregate of specified sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel vibratory roller 8-10 tonnes in stages to proper grade and camber						

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Measurement Book No. C/09

Serial No.....

Name of work.....From.....To 75383.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	applying and brooming requisite type of screening complete as per specifications. previous measurements — NIL present measurements — Qty. as per premeasurements recorded in the MS Excel spreadsheet vide page no 13 of 15 21.41 Cum @ Rs. 1700/Cum = Rs.						36,397-00
I.No. (22)	collecting, conveying and disposal of surplus/excavated earth to designated dumpsy site (15.00 kms) as directed by the Engineer-in-charge previous measurements - Qty. vide page no. 14 of 19 of premeasurements recorded in MS Excel sheet present measurements - Qty vide page no. 15 of 15 of MS Excel sheet DPR vide page no. 855 74/2 of MB 856/13-14 Total Qty Balance Qty.					833.79 Cum 76.49 Cum 910.28 Cum 833.79 Cum 76.49 Cum	